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10TH DISTRICT, NEW JERSEY

COMMITTEE ON TRANSPORTATION
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Congress of the United States
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Washington, DC 20515

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March 31, 2023

The Honorable Kay Granger
Chairwoman
Committee on Appropriations
H-305 The Capitol
Washington, DC 20515

The Honorable Rosa DeLauro
Ranking Member
Committee on Appropriations
1036 Longworth HOB
Washington, DC 20515

Dear Chairwoman Granger and Ranking Member DeLauro,

I am requesting funding for the Ground-based Simulator for In-space Refueling Cryogenic Propellants in Fiscal Year 2024. The entity receive funding for this project is the New Jersey Institute of Technology, located at University Heights, Newark, NJ 07102. This project will design and fabricate a Ground-based Simulator for In-space Refueling Cryogenic Propellants. The project is closely aligned with the National Aeronautics and Space Administration (NASA) programs to establish sustainable space travel and prepare the space workforce for the future. Cryogenic propellants, liquid oxygen and liquid hydrogen or liquid methane, are the most efficient propellant combinations for travel in space. The capability for cryogenic refueling on orbit and in space represents a paradigm shift in the architecture for deep-space human and robotic missions, and sustained lunar activities without super heavy lift vehicles. Additionally, STEM education is critical for preparing a diverse workforce to fuel the space economy of the future and continue U.S. leadership in space research, technology and exploration with benefits to society on Earth in areas of transportation, national security and public safety, consumer goods, energy and environment, and industrial productivity. This is an appropriate use of taxpayer funds because it will improve space exploration for all humanity.

The project has a Federal nexus because the funding provided is for purposes described in section 20102 of title 51, United States Code.

I certify that I have no financial interest in this project, and neither does anyone in my immediate family.

Sincerely,



Donald M. Payne, Jr.
Member of Congress

